

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) An isolated DNA molecule ~~selected from:~~
 - a. ~~a pig CD59 gene or its complementary strand;~~
 - b. ~~a sequence substantially homologous to, or capable of hybridizing to, a substantial portion of a gene defined in (a) above;~~
 - c. ~~a molecule coding for a polypeptide having the sequence of Figure 2 (SEQ ID NO. 2), or its complementary strand~~
 - d. ~~genomic DNA corresponding to a molecule in (a) above; and~~
 - e. ~~a fragment of a molecule defined in any of (a), (b), (c), or (d) above, other than the fragment described SEQ ID No. 1.~~
2. (Currently Amended) An isolated RNA molecule comprising an RNA sequence corresponding to a DNA sequence according to Claim 1.
3. (Original) A nucleic acid probe having a sequence according to Claim 1, and optionally including a label.
4. (Withdrawn) An isolated, purified, or recombinant polypeptide comprising a pig CD50 protein or a mutant, variant or portion thereof or encoded by a sequence according to Claim 1 or a variant thereof having substantially the same activity as the pig CD59 protein.
5. (Withdrawn) A polypeptide according to Claim 4, wherein the pig CD59 protein has the amino acid sequence defined in Figure 2 (SEQ ID No. 2).
6. (Withdrawn) An anti-pig CD59 monoclonal antibody or a labeled anti-pig CD59 monoclonal antibody.
7. (Original) A vector comprising the nucleic acid sequence of Claim 1.

8. (Original) A host cell transfected or transformed with a vector according to Claim 7.
9. (Withdrawn) A non-human transgenic animal wherein the transgene comprises the DNA of Claim 1.
10. (Currently Amended) A ~~[[N]]~~nucleic acid ~~primers molecule~~ selected from the following, as herein defined:
A-Pig: C-Pig (SEQ ID No. 3: SEQ ID No. 4)
Qo[:]] (SEQ ID No. 6) and Q1 (SEQ ID No. 6: SEQ ID No. 7)
QT (SEQ ID No. 5)
D-Pig: E-Pig (SEQ ID No. 8: SEQ ID No. 9)
RT-Pig (SEQ ID No. 10)
F-Pig: G-Pig (SEQ ID No. 11: SEQ ID No. 12)
~~pigxP 1: PigxP 2~~ (SEQ ID No. 12: SEQ ID No. 14) .
11. (New) A cell comprising a nucleic acid of claim 1 or 2.
12. (New) A cell comprising a vector of claim 7.
13. (New) The cell of claim 12 wherein the cell is non-human.